APPENDIX I

Core Summary Logs, Photographs, and
Field Forms for Post-Construction Coring

POST-CONSTRUCTION CORE SUMMARY LOGS AND PHOTOGRAPHS

Mudmole™ Core Summary Log

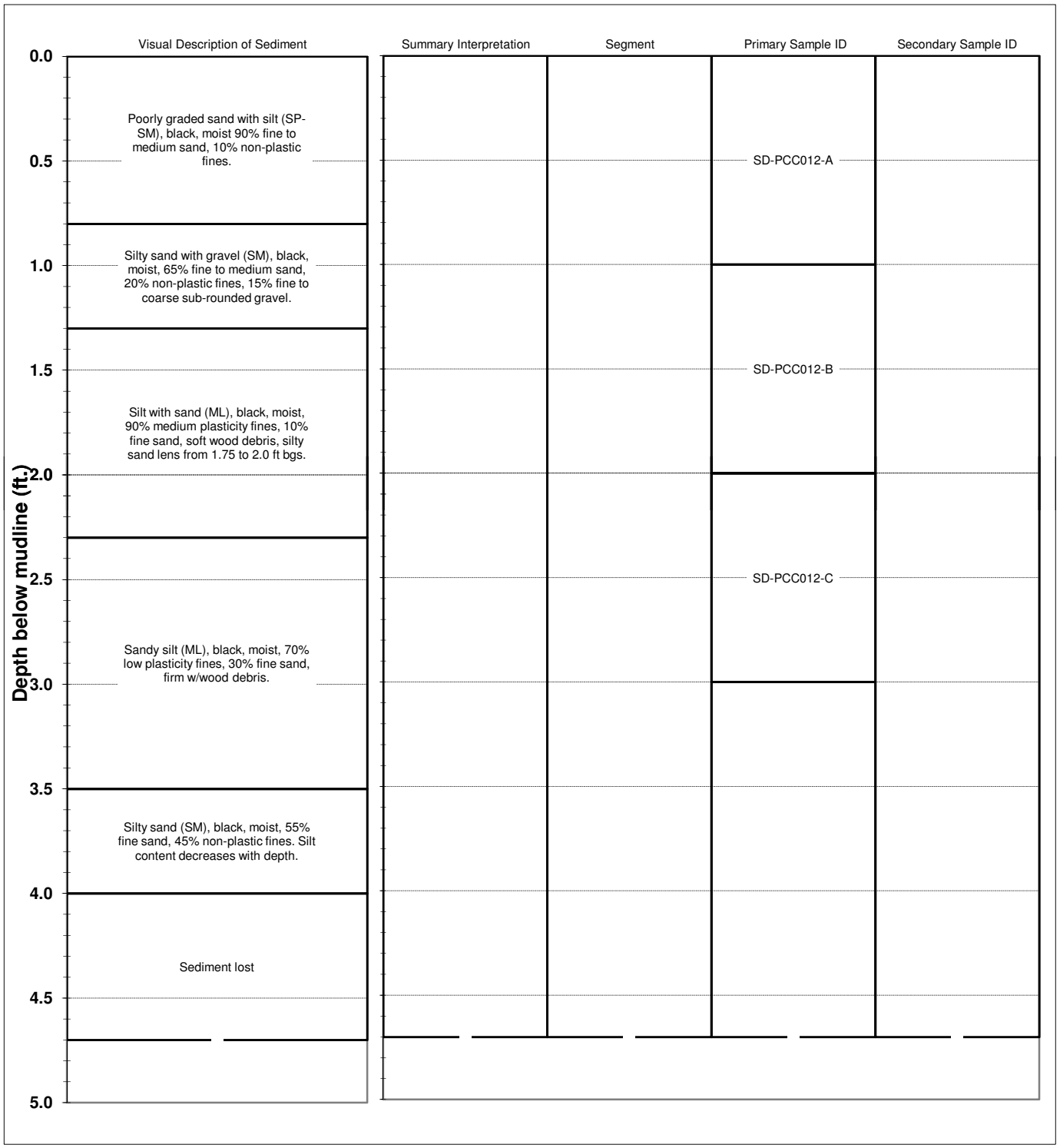
Project: Boeing Plant 2 PCC
Project No: 131320090

Station: **SD-PCC012**

Maximum depth of retained sediment: 4.0 ft
Mudline elevation: -3.9 **ft MLLW**
Percent recovery (on-deck): 94%

	Core collection	Laboratory processing
Date:	2/13/2014	2/13/2014
Time:	11:53	13:30

Field Log: CJ
Summary Log: RG



AMEC E&I
3500 188th Street SW, Suite 601
Lynnwood, WA 98037
(425) 921-4000
fax (425) 921-4040

Core SD-PCC012

Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC012 a**

Core SD-PCC012

Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC012 b**

Core SD-PCC012

Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC012 c**

Mudmole™ Core Summary Log

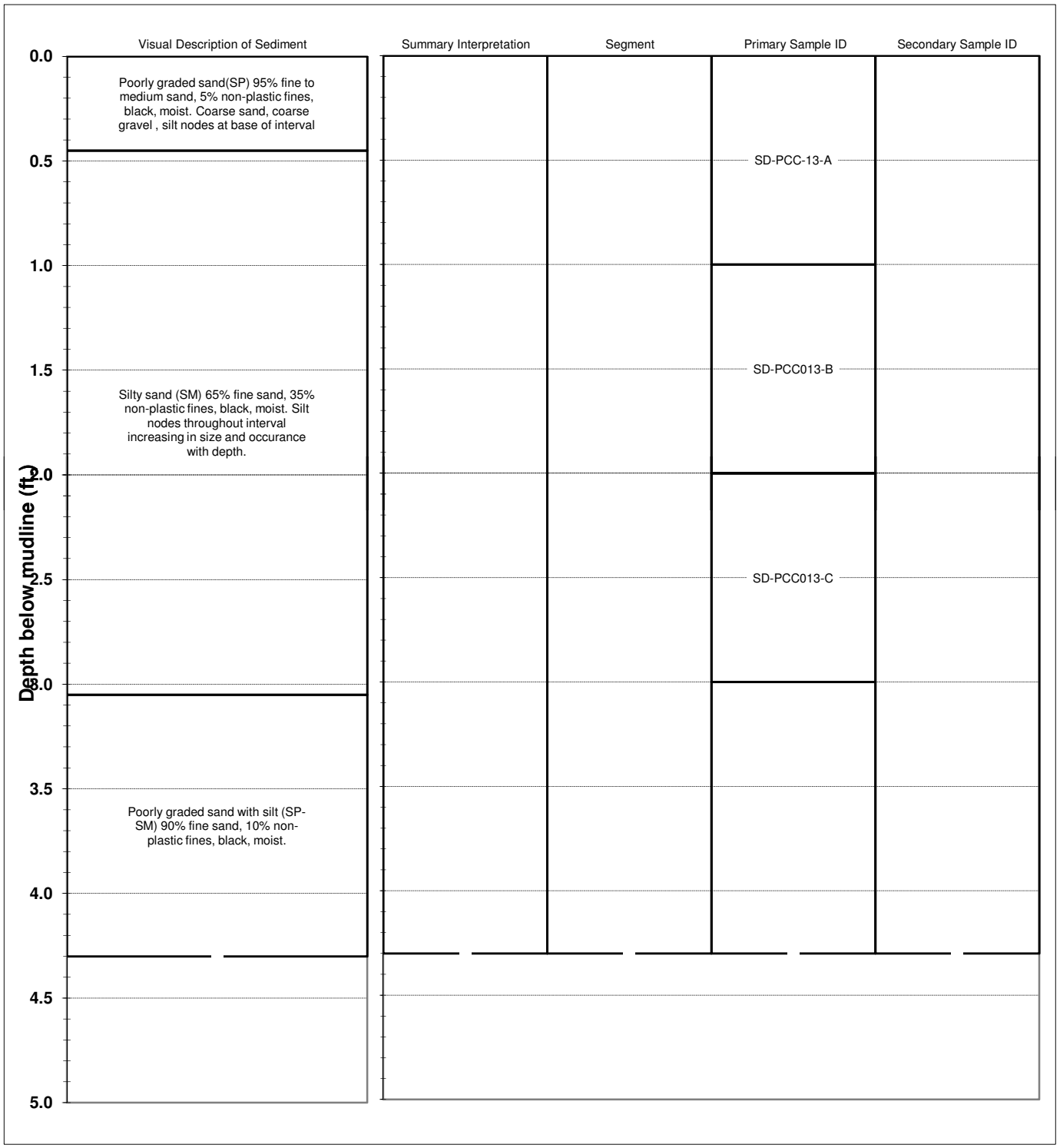
Project: Boeing Plant 2 PCC
Project No: 131320090

Station: **SD-PCC013**

Maximum depth of retained sediment: 4.3 ft
Mudline elevation: -24.5 **ft MLLW**
Percent recovery (on-deck): 86%

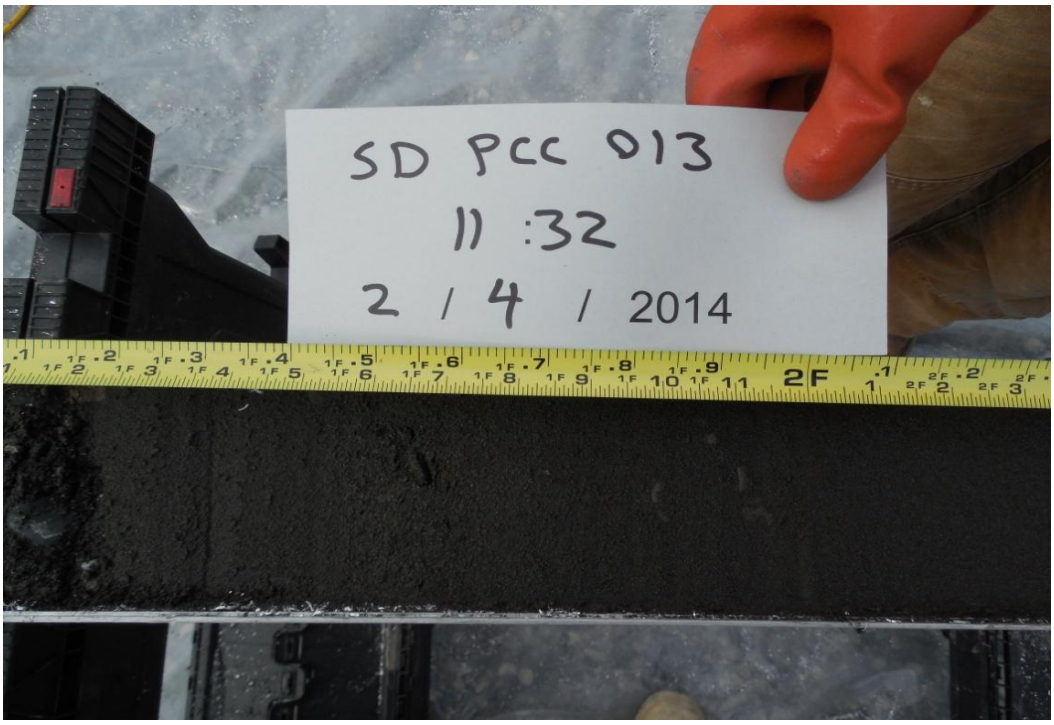
	Core collection	Laboratory processing
Date:	2/4/2014	2/4/2014
Time:	11:32	14:43

Field Log: CJ
Summary Log: RG



AMEC E&I
3500 188th Street SW, Suite 601
Lynnwood, WA 98037
(425) 921-4000
fax (425) 921-4040

Core SD-PCC013



Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

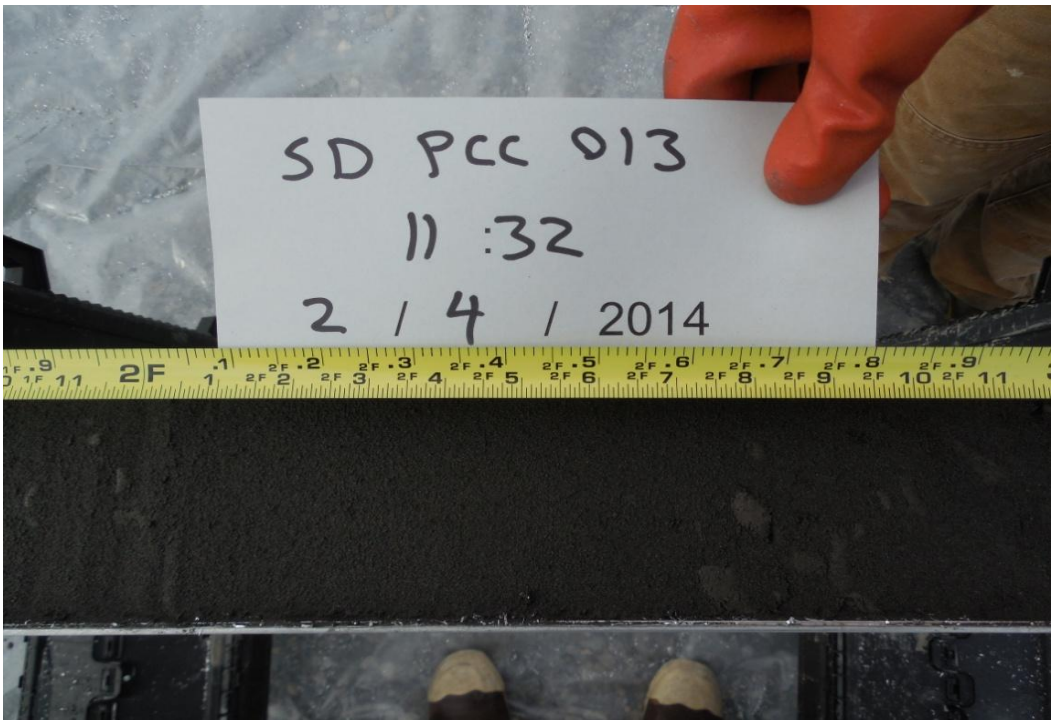
2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

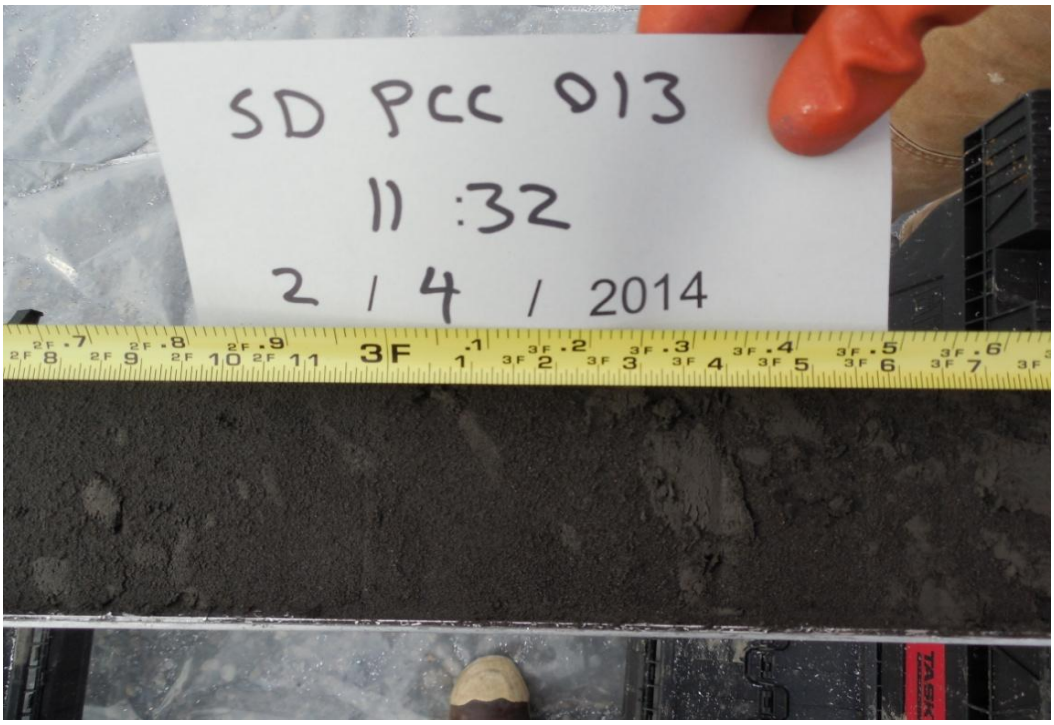
Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC013 a**

Core SD-PCC013





Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

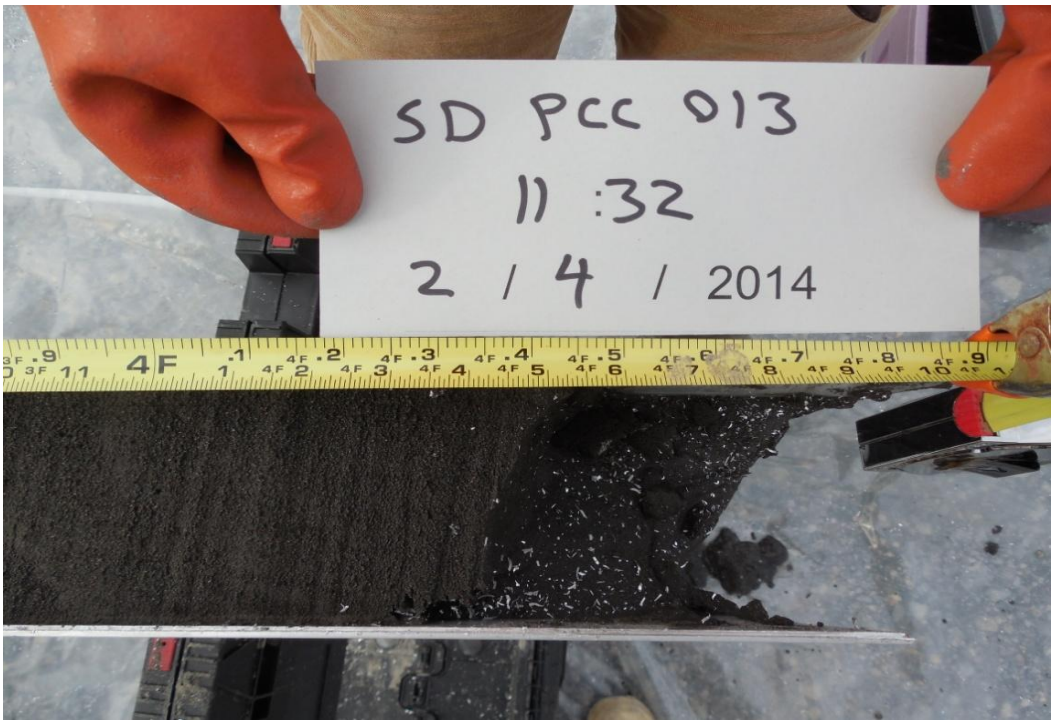
2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC013 b**

Core SD-PCC013



Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC013 c**

Mudmole™ Core Summary Log

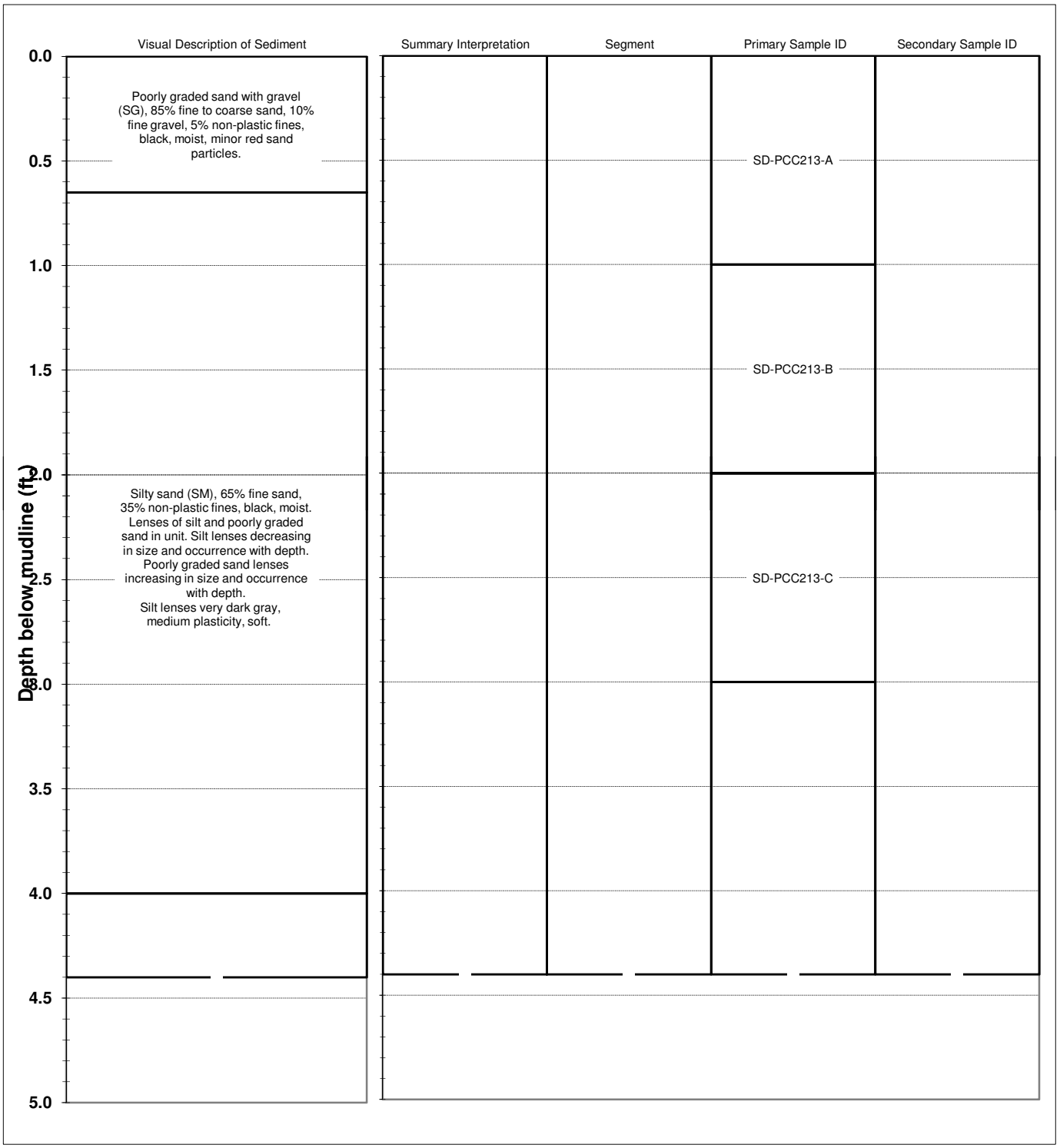
Project: Boeing Plant 2 PCC
Project No: 131320090

Station: **SD-PCC213**

Maximum depth of retained sediment: 4.4 ft
Mudline elevation: -24.8 **ft MLLW**
Percent recovery (on-deck): 88%

	Core collection	Laboratory processing
Date:	2/4/2014	2/4/2014
Time:	11:51	15:01

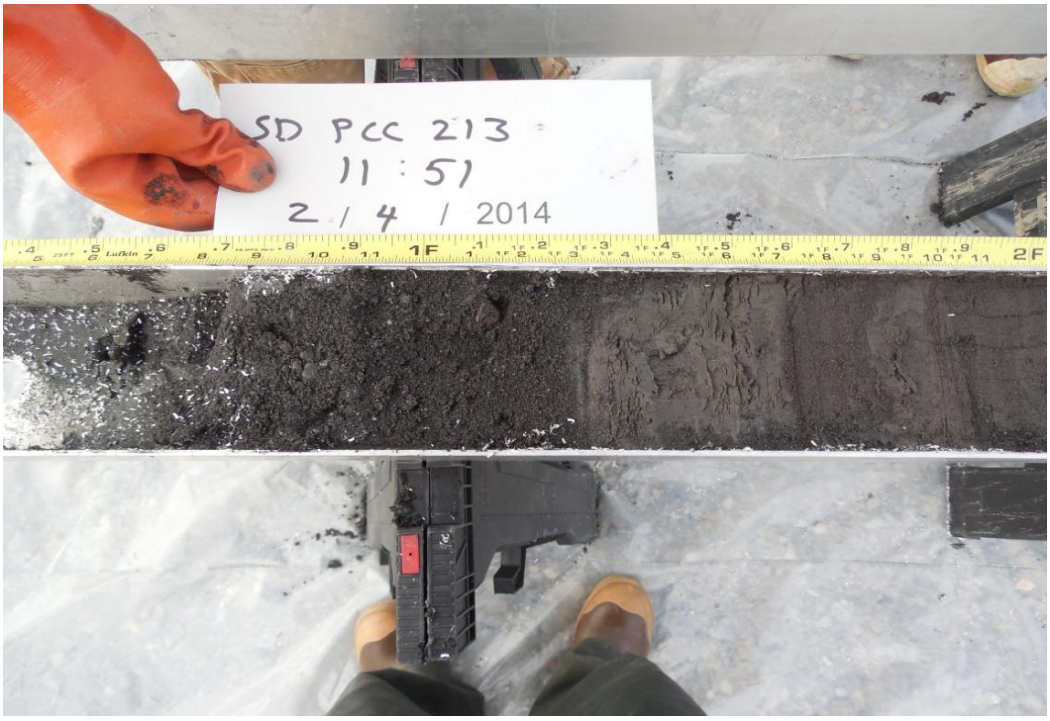
Field Log: CJ
Summary Log: RG



AMEC E&I
3500 188th Street SW, Suite 601
Lynnwood, WA 98037
(425) 921-4000
fax (425) 921-4040

File name: SD-PCC213.xls
Summary Core Log

Core SD-PCC213
Field Duplicate of SD-PCC013



Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC213 a**

Core SD-PCC213
Field Duplicate of SD-PCC013

Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC213 b**

Core SD-PCC213
Field Duplicate of SD-PCC013

Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC213 c**

Mudmole™ Core Summary Log

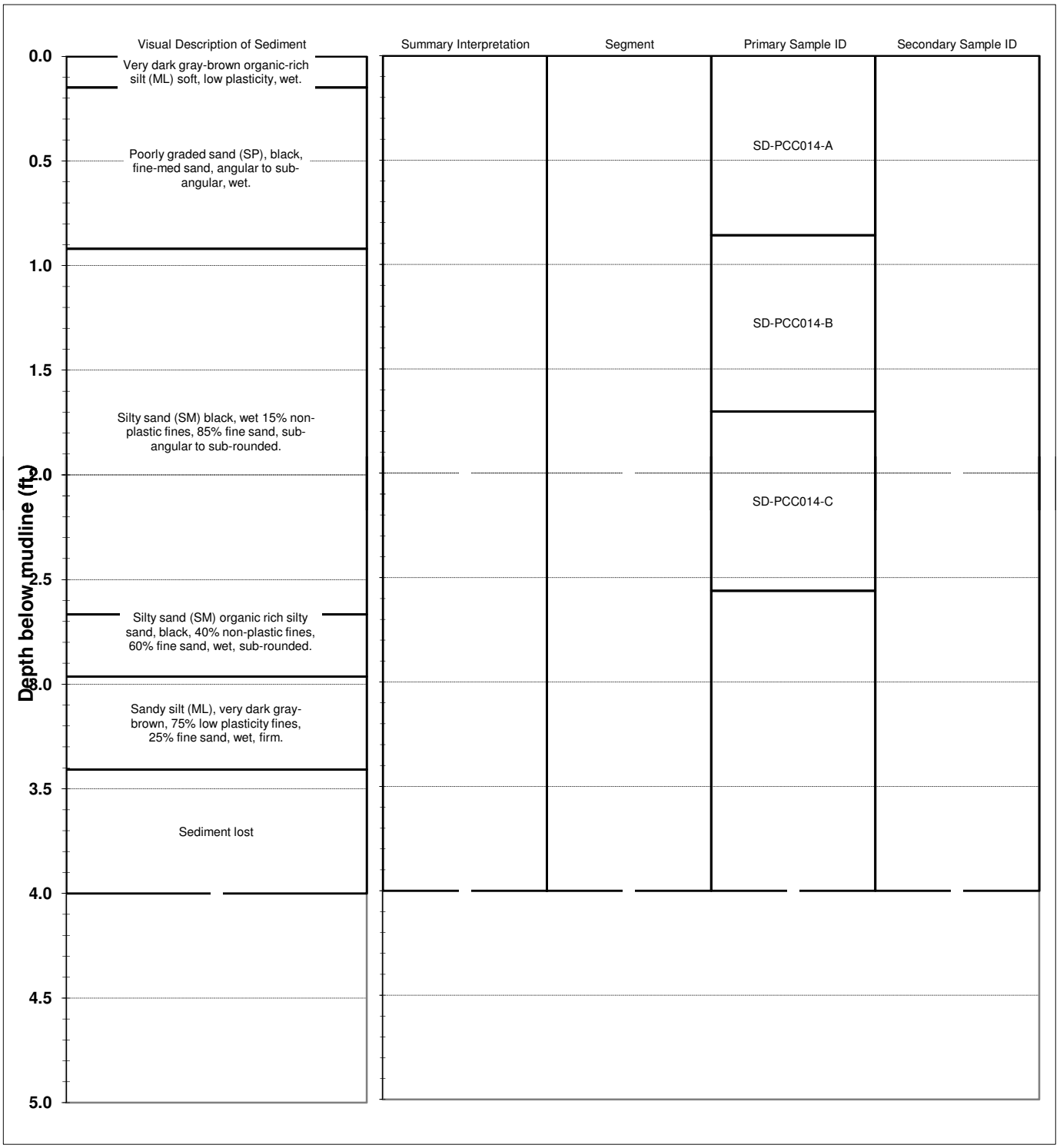
Project: Boeing Plant 2 PCC
Project No: 131320090

Station: SD-PCC014

Maximum depth of retained sediment: 3.4 ft
Mudline elevation: -22.9 **ft MLLW**
Percent recovery (on-deck): 68%

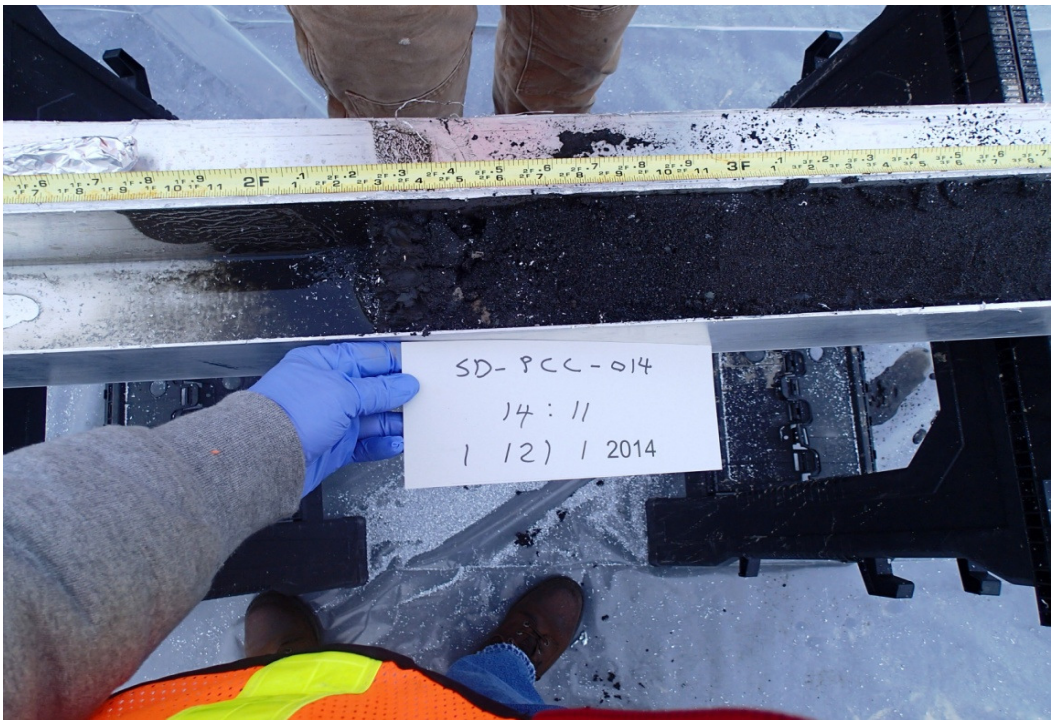
	Core collection	Laboratory processing
Date:	1/21/2014	1/21/2014
Time:	14:11	15:50

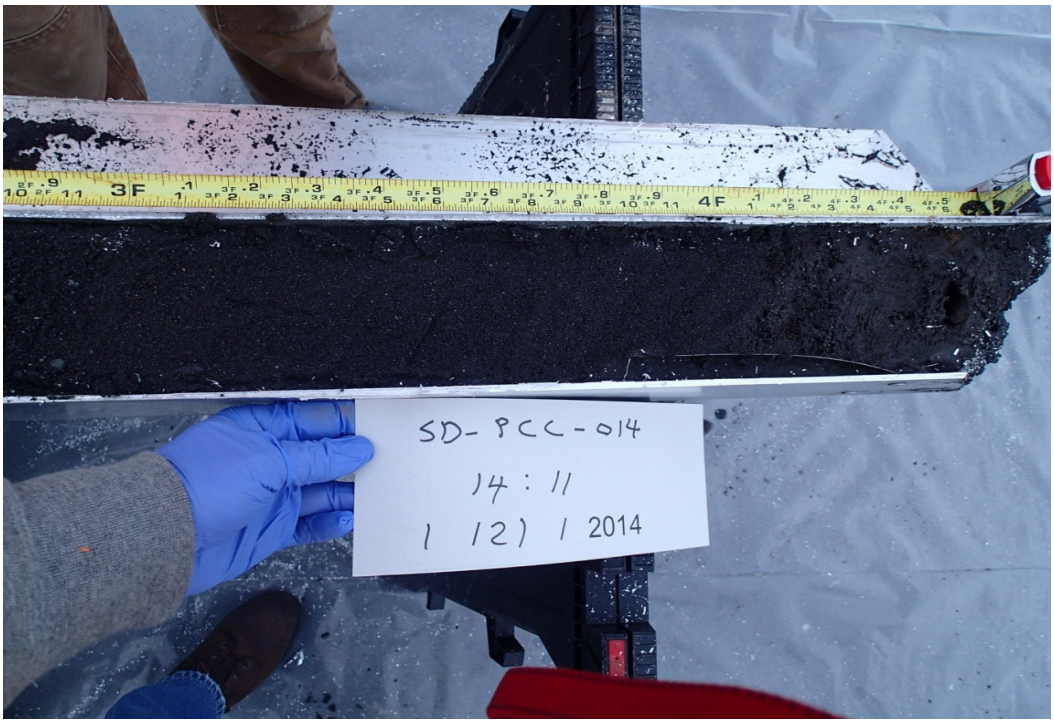
Field Log: CJ
Summary Log: RG



AMEC E&I
3500 188th Street SW, Suite 601
Lynnwood, WA 98037
(425) 921-4000
fax (425) 921-4040

Core SD-PCC014





Note:

Tape measure is referenced to top of tube.
In situ measurements calculated using
final penetration and recovery measurements.

POST-CONSTRUCTION CORE SAMPLING

2014 Construction Season Completion Report
Duwamish Sediment Other Area and Southwest Bank
Corrective Measure and Habitat Project

Boeing Plant 2

Seattle/Tukwila, Washington

BY: RHG	Date: 3/5/14	Project No. 0131320090
BOEING		**SD-PCC014**

COC Forms

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

Recorded by: GSM

Checked by: _____

Place Sample ID Label Here or Write ID Number Here	Date / Time	Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) and PCBs (by Aroclor)	Analysis Containers: TOC, and Archive	Analysis Containers:	Number of containers
AMEC: BP2 PCC Sampling SD-PCC012-A COC Form Date: 2/13/14 Time: 1153	Date: Time:	X			1
AMEC: BP2 PCC Sampling SD-PCC012-B COC Form Date: 2/13/14 Time: 1153	Date: Time:	X			1
AMEC: BP2 PCC Sampling SD-PCC012-C COC Form Date: 2/13/14 Time: 1153	Date: Time:	X RG	X		1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: Rob Cubbage	Name:
Date: 2/13/14	Date: 2/13/14
Time: 1400	Time: 1406

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

Recorded by: GSM

Checked by: _____

Place Sample ID Label Here or Write ID Number Here	Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) and TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC: BP2 PCC Sampling SD-PCC013-A COC Form Date: 2/4/14 Time: 1132	Date: Time: X	-		1
AMEC: BP2 PCC Sampling SD-PCC013-B COC Form Date: 2/4/14 Time: 1132	Date: Time: X			1
AMEC: BP2 PCC Sampling SD-PCC013-C COC Form Date: 2/4/14 Time: 1132	Date: Time:	X		1
AMEC: BP2 PCC Sampling SD-PCC213-A COC Form Date: 2/4/14 Time: 1151	Date: Time: X			1
AMEC: BP2 PCC Sampling SD-PCC213-B COC Form Date: 2/4/14 Time: 1151	Date: Time: X			1
AMEC: BP2 PCC Sampling SD-PCC213-C COC Form Date: 2/4/14 Time: 1151	Date: Time:	X		1
Place Sample ID Label Here or Write ID Number Here	Date: Time:			

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: [signature]	Name: [signature]
Date: 2/4/14	Date: 2/4/14
Time: 1455	Time: 1455

AMEC
3500 188th St. SW, Suite 601
Lynnwood, WA 98037
(425) 921-4000

CHAIN OF CUSTODY

Recorded by: RHG

Checked by: ___________

Sample ID	Date / Time	Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn), TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC: BP2 PCC Sampling SD-PCC014-A COC Form Date: 1/21/14 Time: 1550	Date: Time:	X			1
AMEC: BP2 PCC Sampling SD-PCC014-B COC Form Date: 1/21/14 Time: 1552	Date: Time:	X			1
AMEC: BP2 PCC Sampling SD-PCC014-C COC Form Date: 1/21/14 Time: 1554	Date: Time:		X		1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: R Gabriel [signature]	Name: [signature]
Date: 1/21/14	Date: 1/21/14
Time: 16:43	Time: 1643

GPS Check Forms

AMEC GPS Check Form

Date: 1-21-14

Project: post dredge survey **Recorder:** GSM

Calculated Location of Reference Station

Coordinate Datum: WA State Plane, NAD 83

Zone: North Zone

Reference Station Name: Check Point 1 **Northing** 196376

Easting 1274699

Units of Measure: Survey Feet

Reference Station Description: Piling at downstream end of the South Park Marina at the end of the channel side dock.

Start of Day

Time: 1308 **Northing** 196372

Coordinate Datum Setup Confirmed: Y **Easting** 1274699

Comments:

End of Day

Time: 1447 **Northing** 196374

Coordinate Datum Setup Confirmed: Y **Easting** 1274698

Comments:

AMEC GPS Check Form

Date: 2-4-14

Project: Boring Confirmation Coring **Recorder:** GSH

Calculated Location of Reference Station

Coordinate Datum: WA State Plane, NAD 83

Zone: North Zone

Reference Station Name: Check Point 1 **Northing** 196376

Easting 1274699

Units of Measure: Survey Feet

Reference Station Description: Piling at downstream end of the South Park Marina at the end of the channel side dock.

Start of Day

Time: 1046 **Northing** 196376

Coordinate Datum Setup Confirmed: Y **Easting** 1274696

Comments:

End of Day

Time: 1223 **Northing** 196378

Coordinate Datum Setup Confirmed: Y **Easting** 1274696

Comments:

AMEC GPS Check Form

Date: 2-13-14

Project: Boring Confirm Core **Recorder:** BJM

Calculated Location of Reference Station

Coordinate Datum: WA State Plane, NAD 83

Zone: North Zone

Reference Station Name: Check Point 1 **Northing** 196376

Easting 1274699

Units of Measure: Survey Feet

Reference Station Description: Piling at downstream end of the South Park Marina at the end of the channel side dock.

Start of Day

Time: 1056 **Northing** 196375

Coordinate Datum Setup Confirmed: Y **Easting** 1274699

Comments:

End of Day

Time: 1216 **Northing** 196376

Coordinate Datum Setup Confirmed: Y **Easting** 1274701

Comments: